

## Coltrain, Katrina

---

**From:** Flores, Raymond  
**Sent:** Thursday, May 07, 2015 8:29 AM  
**To:** Coltrain, Katrina; Perez, Myra  
**Subject:** Re: Wilcox Oil Requests for Analytical Services - please reply

One correction: These deuterated surrogates are spiked into every sample (not every compound).

---

**From:** Flores, Raymond  
**Sent:** Thursday, May 7, 2015 7:46:06 AM  
**To:** Coltrain, Katrina; Perez, Myra  
**Subject:** Re: Wilcox Oil Requests for Analytical Services - please reply

Hi Katrina,

Traditional QA training cites precision and accuracy as a means to ensure that analytical processes are within control limits set for routine operations of the laboratory. In this traditional approach, precision is measured by the Relative Percent Difference between the MS and MSD and accuracy by the % Recovery of the MS (and MSD for organics). An acceptable recovery for accuracy indicates the analytical process was within control for the MS sample (and MSD sample for organics). The acceptable precision (%RPD) implies that all samples within the SDG were analyzed in a similar fashion (precision between samples) so their results were accurate also. The acceptable accuracy recovery is extrapolated to the other samples in the SDG using the acceptable precision (%RPD).

Surrogates in laboratory work have evolved so that they are so similar to the targets, accuracy recoveries for these surrogates are nearly identical to the targets. The surrogates are nearly identical to the targets but the Mass Spectrometer can easily distinguish between the target and its surrogate. These deuterated surrogates are spiked into every compound in some lab procedures (dioxin/furans, PCB congeners, CLP SVOA, CLP VOA). Accuracy recoveries can then be harvested from every sample and the MS (and MSD) spiking of targets is not required. Since they are spiked into every compound a precision measurement is not required for extrapolation purposes. CLP Pesticides and CLP Aroclors are not analyzed by GC/MS so deuterated surrogates can not be used. Metals and mercury analyses do not lend themselves to the use of deuterated surrogates as those species do not have a hydrogen bond to substitute a deuterium atom onto.

So for CLP work we do not recommend MS/MSD for the SVOA or VOA. MS/MSD is required for CLP Pest & CLP Aroclor analyses. The MS is required for the metals and mercury analyses. Precision (%RPD) for metals is calculated from the sample and sample duplicate concentrations.

---

**From:** Coltrain, Katrina  
**Sent:** Thursday, May 7, 2015 7:05 AM  
**To:** Perez, Myra; Flores, Raymond  
**Subject:** RE: Wilcox Oil Requests for Analytical Services - please reply

Myra/Ray, will you help me understand the recommendation that lab MS/MSD QC samples not be requested through CLP for VOA and BNA? I assume that all other QC requests are acceptable.

thanks

Katrina Higgins-Coltrain  
Remedial Project Manager  
US EPA Region 6  
LA/OK/NM Section  
1445 Ross Avenue  
Dallas, Texas 75202  
214-665-8143

---

**From:** Perez, Myra  
**Sent:** Wednesday, May 06, 2015 8:47 AM  
**To:** Hayes, Mark  
**Cc:** Flores, Raymond; Humphrey, Marvelyn; Warren, Christy; Coltrain, Katrina  
**Subject:** RE: Wilcox Oil Requests for Analytical Services - please reply

Hello Mark –

I will be scheduling the samples through the CLP Program and after reading the lab request form, addendum and QAPP, I could not find the following information:

- 1) **The target compounds of concern (COCs) in each fraction and the action levels required to meet the DQO's.** This information should be listed in item 5a of the lab request form. This is critical information that will allow us to determine if the CLP SOWs will provide the data required for this investigation or if we need to prepare a Modified Analysis (MA) to reach these goals. The SOW CRQLs are based on clean samples and with “real samples” there might be dilutions or matrix interference that will provide adjusted CRQLs which might not meet your DQOs. Without focusing on a limited number of COCs, the CLP sample analysis will provide results at routine levels (CRQLs).

Also, in the CLP only, lab QC (MS/MSD) is optional for the VOA and BNA analysis. We recommend not requesting lab QC for these two fractions. For questions/concerns, please contact the CLP COR, Raymond Flores at 281/983-2139. Lab QC is required for the Pesticide, Aroclors, metals and mercury.

The Region 6 removal allocation will be exceeded with this sampling event. We will contact ASB and try to obtain the additional funding and we will let you know the outcome.

Please do not hesitate to contact me or Raymond Flores if you have questions.

Take care.

Myra Perez  
R6 CLP RSCC  
281-983-2130

---

**From:** Hayes, Mark  
**Sent:** Tuesday, May 05, 2015 3:57 PM  
**To:** Warren, Christy; Coltrain, Katrina  
**Cc:** Criner, Jeffrey J.; Cobb, Derrick; Perez, Myra; Flores, Raymond; Humphrey, Marvelyn; Downham, Todd  
**Subject:** RE: Wilcox Oil Requests for Analytical Services

Christy,

Shouldn't be problem to move sampling start date back a week. Turnaround time should be fine.

Katrina

Spoke with Todd and he's okay with the new start date. He indicated that you guys have an open house meeting scheduled for 5/19. Will you be available for the remainder of the week?

---

**From:** Warren, Christy

**Sent:** Tuesday, May 05, 2015 3:27 PM

**To:** Hayes, Mark; Coltrain, Katrina

**Cc:** Criner, Jeffrey J.; Cobb, Derrick; Perez, Myra; Flores, Raymond; Humphrey, Marvelyn

**Subject:** RE: Wilcox Oil Requests for Analytical Services

Mark and/or Katrina,

The Region 6 Lab can handle a portion of this work and the remainder will need to go through the CLP Program. We are not sure due to time constraints if we can get everything reviewed and scheduled through the CLP Program in time in order to have labs for next week (Week of May 11<sup>th</sup>) as requested. **Can this sampling be moved back by a week to allow the time required to review and schedule the work?**

The Region 6 Lab can handle the following under a 35 day turnaround time: **Will this turnaround time meet your needs?**

40 soils for VOA (Encores)

5 rinsates for VOA

Up to 10 Field Blanks/Trip Blanks for VOA

0 soils for SVOC/PAH by SIM

0 water for SVOC

60 soils for Pesticide/Aroclor

5 rinsates for Pesticide/Aroclor

100 soils for Total Metals + Hg

5 rinsates for Total Metals + Hg

The remainder of the samples are what Myra and Ray will be working on to schedule through the CLP Program.

Christy Warren

US EPA Region 6 Lab

Sample Control Center

10625 Fallstone Road

Houston, Texas 77099

Office: 281-983-2137

Cell: 713-805-7157

This e-mail may be privileged and/or confidential. It is intended for the named recipient(s) only. Any distribution, use or copying of this e-mail or the information it contains by other than an intended recipient is unauthorized. If you received this e-mail in error, please advise me (by return e-mail or otherwise) immediately and do not duplicate it or disclose its contents to anyone.

---

**From:** Cobb, Derrick [<mailto:Derrick.Cobb@WestonSolutions.com>]

**Sent:** Friday, May 01, 2015 9:20 AM

**To:** Warren, Christy

**Cc:** Hayes, Mark; Coltrain, Katrina; Criner, Jeffrey J.

**Subject:** Wilcox Oil Requests for Analytical Services

Christy,

Attached is the request for analytical services and the QASP Addendum for the Wilcox Oil Phase II soil sampling. Please let me know if you have any questions or concerns. Thanks.

Derrick Cobb

Weston Solutions, Inc.

5599 San Felipe, Suite 700

Houston, Texas 77056

(713) 985-6621 direct

(832) 347-4180 cell

(713) 985-6703 fax

[derrick.cobb@westonsolutions.com](mailto:derrick.cobb@westonsolutions.com)

**CONFIDENTIALITY:** This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.